



SCIENCE ■ TECHNOLOGY ■ ENGINEERING ■ MATH

STEM

Southeastern Massachusetts Network

Educating for the Future - A Virtual Program

September 16, 2024 – 4:00_{PM}-6:00_{PM}

Strengthening the STEM Pipeline

Focus on early childhood and in-school and out-of-school STEM programs, educational opportunities PK-16, and the role of collaboration in strengthening the STEM Pipeline.

Agenda

4:00_{PM}-4:20_{PM} Welcome

- Stacey A. Kaminski, Ed.D., Executive Director, CONNECT Partnership
- Session Highlights
 - **Session 1: Strengthening the STEM Pipeline – Begin Early**
Debra Garvin, Programs Coordinator – Robbins Children's Program
 - **Session 2: Strengthening the STEM Pipeline - In-School and Out-of-School Initiatives** Michael Tamasi – CEO - AccuRounds
 - **Session 3: Strengthening the STEM Pipeline - Model MA STEM Week 2024 Programs** Paula Martel, Outreach Manager – North Easton Machine

4:25_{PM}-5:50_{PM} Break Out Sessions - Strengthening The STEM Pipeline

Sessions held concurrently twice - 40 min – 4:25_{PM}-5:05_{PM} and 5:10_{PM}-5:50_{PM}

Session 1: *Strengthening the STEM Pipeline - Begin Early*

Focus on how collaboration with business leaders supports STEM/STEAM programs for young children, why early childhood programs are essential to strengthening the STEM Pipeline, and classroom environments and learning experiences that promote exploration and creativity.

- Debra Garvin, Programs Coordinator – Robbins Children's Program
Panel Moderator
- Krissy Cannizzo, Director of Education - Children's Museum of Easton
- Lynne Papetti, Strategic Partnerships Manager – National Grid
- Christine Santoro, Executive Director - Children's Museum of Easton

Session 2: *Strengthening the STEM Pipeline - In-School and Out-of-School Initiatives*

Focus on strategies and programs that support STEM education and career pathway opportunities for students & community members provided by businesses, school districts, community organizations, and colleges and universities.

- Michael Tamasi, President/CEO - AccuRounds
Panel Moderator
- David Edwards, Connecting Activities Coordinator - MassHire Brockton Area
- Liz Klein, Co- Chair – Region V Science & Engineering Fair
- Kevin McCaskill, Principal – Brockton High School

Session 3: *Strengthening the STEM Pipeline - Model MA STEM Week 2024 Programs*

Learn about model MA STEM Week programs presented by businesses, school districts, community organizations, and colleges and universities that can be replicated during STEM Week or at other times throughout the year.

- Paula Martel, Outreach Manager - North Easton Machine
Panel Moderator
- Margaret Brumsted, Wade Institute for Science Education - Education Specialist
- Pat Monteith, Makerspace/Planetarium Coordinator - Brockton Public Library
- Katie Ruggieri, Ph.D., Dean of STEM - Massasoit Community College
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5:55_{PM} - Closing

Biographies

SESSION 1: Strengthening the STEM Pipeline - Begin Early

Focus on how collaboration with business leaders supports STEM/STEAM programs for young children, why early childhood programs are essential to strengthening the STEM Pipeline, and classroom environments and learning experiences that promote exploration and creativity.

Krissy Cannizzo, Children's Museum of Easton - Director of Education and Outreach

Krissy Cannizzo is the Director of Education and Outreach for the Children's Museum Easton (CME). She coordinates and facilitates the CME360 outreach enrichment program and visits schools, libraries, and other public settings around Massachusetts. She also creates and facilitates professional development for early childcare educators in southeastern Massachusetts. Krissy works closely with local cultural councils to support the hands-on enrichment programs for children and families in the surrounding communities.

Before joining CME, she was a Director at Westfield Child Center, Brockton, MA., responsible for the safety and well-being of one hundred forty-four children. Before being promoted to Director, she was their accreditation support staff and preschool teacher. Before her work at Westfield, Krissy worked at the Child Welfare League of America, Youth Services Department in Washington, DC. She assisted in coordinating national conferences and regional meetings at their national headquarters. Krissy brings a wealth of experience to her role, having worked with infant, toddler, preschool, kindergarten, and school-age children in both classroom and after-school settings.

Krissy holds a Bachelor of Science degree from the University of New Hampshire, focusing on Child and Family Studies, and a Minor in Psychology. Additionally, she is EEC DII certified, further validating her expertise in early childhood education.

Website: <https://www.cmeaston.org>

Debra Garvin, Robbins Children's Programs/Programs Coordinator Facilitator

Debra is responsible for promoting STEM learning in all of Robbins programs-Family Child Care, Preschool and School Age-by offering resources and Professional Development for teachers, providing STEM related toys and activities for classrooms, and sharing information about STEM materials and careers to families. Debra has been a valued member of the SE MA STEM Advisory Board for several years, where she shares best practices and networks with others about the benefit of introducing STEM early in their educational journey.

Website: robbinscp.org Contact Debra at: programs@robbinscp.org

Lynne Papetti, National Grid - Strategic Partnerships Manager

My role is focused on cultivating program partnerships that help build the STEM pipeline and inspire the next generation of STEM leaders. We partner with organizations that support the pre-K through college pipeline and work collaboratively to ensure no one in our communities is left behind as we work towards a clean, fair and affordable energy future.

Website: www.nationalgridus.com

Contact Lynne Papetti at: lynne.papetti@nationalgrid.com

Christine Santoro, Children's Museum of Easton - Executive Director

Children's Museum in Easton (CME) Executive Director Christine Santoro was the CME Board of Directors chairperson before becoming Executive Director. She is a lawyer (New England School of Law) with an undergraduate degree in special education/speech therapy and a master's degree in counseling psychology from Bridgewater State University.

Christine has diverse professional experience. From being a public kindergarten teacher to engaging in private law practice for several years and then serving as the chief legal counsel for the OSET Institute, Inc., a 501 c (3), she has accumulated over twelve years of diverse experience in the nonprofit sector. Her responsibilities at CME include fundraising, staff supervision, planning, financial management, program management, marketing, and community relations, all of which she handles with finesse and dedication in conjunction with the Board of Directors.

Christine leads a team of four full-time staff members, including a longtime museum operations manager, a certified early childhood educator, and an art manager. In addition to the leadership team, she oversees 8-10 part-time employees and has a dedicated group of board members and volunteers. Website: <https://www.cmeaston.org>

SESSION 2: Strengthening the STEM Pipeline - In-School and Out-of-School Initiatives

Focus on strategies and programs that support STEM education and career pathway opportunities for students & community members provided by businesses, school districts, community organizations, and colleges and universities.

David Edwards, MassHire Greater Brockton Workforce Board - Connecting Activities Coordinator

David oversees the CA program for the Brockton Region. We serve 14 high schools in the South Shore connecting them with employers in our region including Abington, Avon, Bridgewater, East Bridgewater, Easton, Hanson, Stoughton, West Bridgewater, and Whitman. Each year we host a STEM Exploration event in partnership with the Center for the Advancement of STEM Education (CASE) at Bridgewater State University. This event is designed to expose youth to STEM Careers and provide them with hands-on activities.

Website: <https://masshiregbwb.org/youth/>

Contact David Edwards at: dedwards@masshiregbwb.org

Liz Klein, Region V Science & Engineering Fair - Co- Chair

Our organization provides an opportunity for students to engage in authentic and original science/engineering work. Students identify a topic they are interested in, and then they design and carry out an experiment related to the topic. They present their findings to experts in the field.

Website: <https://mareg5.zfairs.com/App?f=f45d809f-6d57-4e02-9838-f34dc49c00a4>

Contact Liz Klein at: maregvoutreach@gmail.com

Kevin McCaskill, Brockton High School - Principal

Educational Leader - Career & Tech Education (CTE) Advocate - Workforce Development Champion.

Since January 2024, Principal McCaskill has been working with teachers, administrators, parents, business partners, and community leaders to support student learning and highlight the outstanding programs offered at Brockton High School and the achievements of Brockton High School students. Website: <https://bhs.bpsma.org>

Michael Tamasi, AccuRounds - President and CEO

Panel Facilitator

Our team is involved with several STEM initiatives in our region including plant tours, co-ops, teacher externships, career fairs, and robotics programs. Website: www.accurounds.com

SESSION 3: Strengthening the STEM Pipeline - Model MA STEM Week 2024 Programs

Learn about model MA STEM Week programs presented by businesses, school districts, community organizations, and colleges and universities that can be replicated during STEM Week or at other times throughout the year.

Paula Martel, North Easton Machine Co. Inc. – Outreach Manager

Panel Facilitator

I have over twenty years of experience in HR and operations within advanced manufacturing businesses. I have a strong interest in STEM education and creating a pipeline for entry level manufacturing positions in SE Massachusetts. I work with vocational schools, Innovation Pathways, and traditional academic high school students to connect them with employment training and entry level positions.

Website: www.NorthEastonMachine.com

Contact Paula Martel at: pmartel@northeastonmachine.com

Pat Monteith, Brockton Public Library - Makerspace/Planetarium Coordinator

Annually produce several hands-on STEM programs and activities for K-12 students as part of the Makerspace and also manage the Library's Mobile Planetarium for visits to schools and other non-profit organizations.

Website: <https://brocktonpubliclibrary.org/248/Planetarium>

Contact Pat Monteith at: brocktonlibrarymaker@gmail.com

**Katie Ruggieri. Ph.D., Massasoit Community College - Dean of Science & Math Division
Dean of STEM at Massasoit Community College and adjunct professor of Biology at
Roger Williams University, Laboure College of Healthcare, and Bristol Community
College.** Website: <https://massasoit.edu>

Margaret Brumsted, Wade Institute for Science Education - Education Specialist.

Coordinator and developer of the Wade Institute's STEM Design Challenges and our *Rise to the Challenge* workshop series. I also am a facilitator for their Customized Professional Learning Programs for school districts and coordinate their Summer Professional Institute in Southeastern MA. Along with Kara Doherty, I coordinate the STEM Design challenge.

Register for the Wade Institute 2024 STEM Design Challenge at: www.wadeinstitute.org.